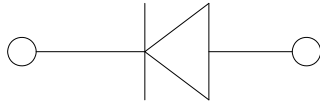
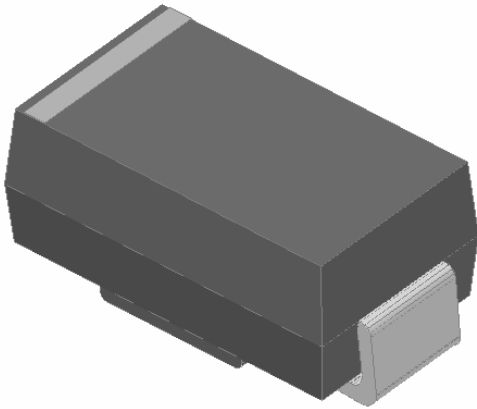


Surface Mount General Purpose Rectifier



Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

- **Package:** DO-214AC (SMA)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ Maximum Ratings (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA
Device marking code			GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA
Maximum Repetitive peak reverse voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, Resistance load, TL (FIG.1)	I _O	A	2						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25	I _{FSM}	A	50						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25			100						
Current squared time @1ms≤t≤8.3ms T _j =25	I ² t	A ² s	10.735						
Storage temperature	T _{stg}		-55 ~ +150						
Junction temperature	T _j		-55 ~ +150						

■ Electrical Characteristics (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GS2AA	GS2BA	GS2DA	GS2GA	GS2JA	GS2KA	GS2MA
Maximum instantaneous forward voltage	V _F	V	I _{FM} =2.0A	1.1						
Maximum DC reverse current at rated DC blocking voltage	I _R	μA	T _j =25	5						
			T _j =125	100						
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	12						

GS2AA THRU GS2MA

GS2AA THRU GS2MA
